

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) Centrifugal A centrifugal pump for pumping ~~of~~ liquids containing pollutions mainly in the form of solid particles, ~~which pump comprises~~ said pump comprising:

_____ a drive unit, and

_____ a hydraulic unit, whereby wherein the hydraulic unit comprises a pump housing (20) and a pump installer impeller (12) rotationally arranged inside the housing,

_____ the pump impeller comprising an upper (14) and a lower (16) cover disc and a number of intermediate vanes (18),

the pump housing comprising a bottom wall (22)
facing the lower cover disc and having a central inlet opening
(24), wherein a circular gap (30) separates a space 29
arranged between the lower disc (16) and the bottom wall (22)
from said central inlet opening (24), characterized in that a

wherein the bottom wall (22) of the pump housing,
having a central inlet opening (24), is arranged with at least
one spirally swept, back flow affecting means (32, 34) in on
the side facing the lower cover disc (16) extending parts of
or full turns around the inlet opening, and

the portion of said back flow affecting means (32,
34) being located adjacent the circular gap (30) is arranged
below said circular gap (30).

2. (Currently amended) Centrifugal The centrifugal
pump according to claim 1, ~~characterized in that~~wherein the
back flow affecting means is arranged as grooves (32) in the
bottom wall.

3. (Currently amended) Centrifugal The centrifugal
pump according to claim 1, ~~characterized in that~~wherein the
back flow affecting means is arranged as ridges (34) in the
bottom wall.

4. (Currently amended) Centrifugal The centrifugal
pump according to any one of the preceding claims,
~~characterized in that~~wherein a wall part of the back flow
affecting means facing towards the inlet forms an angle β
with the plane of the bottom wall which is in the range 85 to
95 degrees.